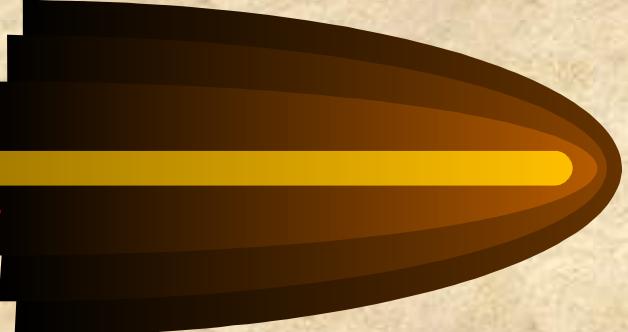


# CADMIUM HAZARD AWAWARENESS

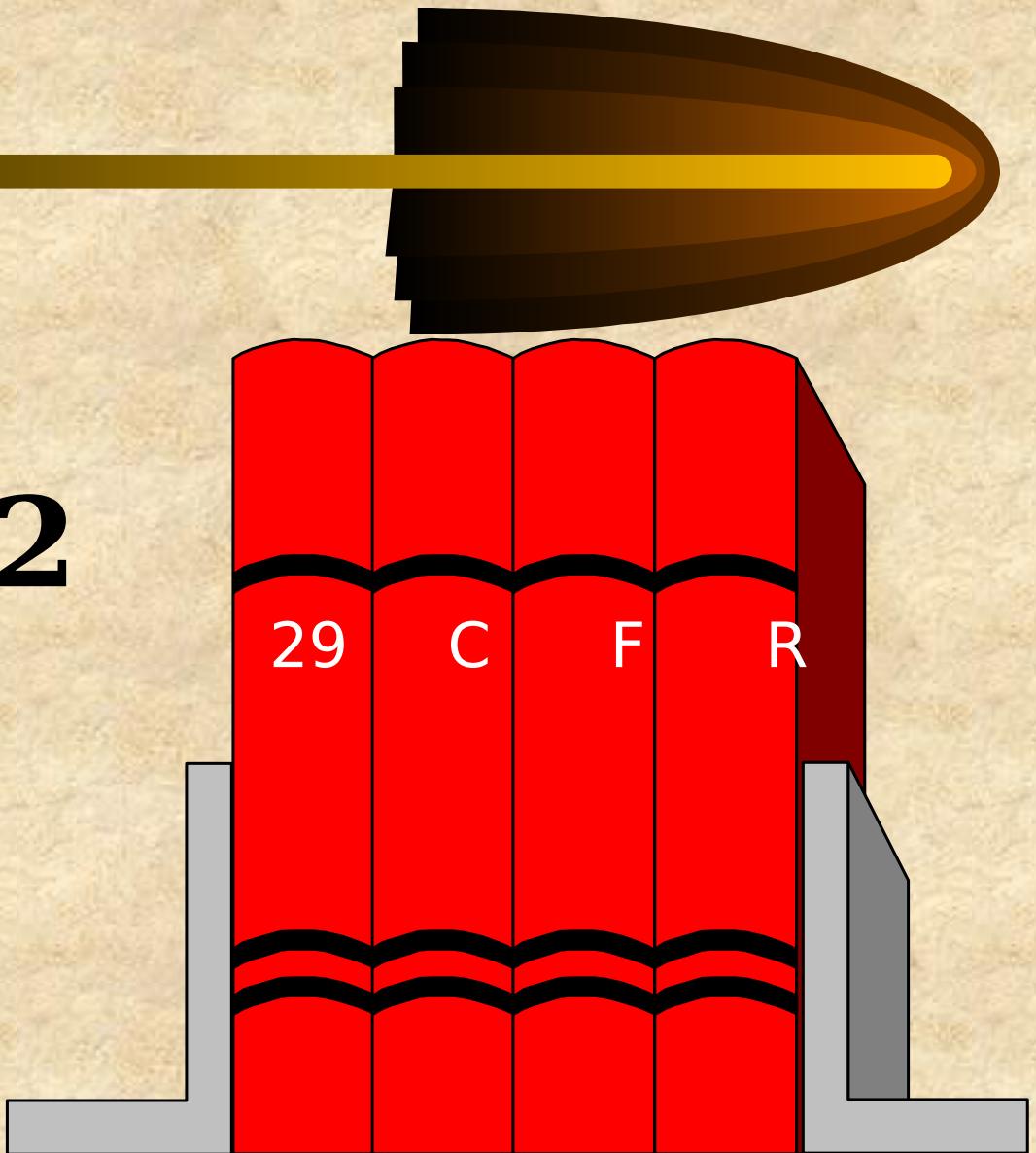


# REFERENCE

S

29 CFR  
1910.102

7



# **WHAT IS CADMIUM?**

- CADMIUM IS A SOFT BLUE-WHITE, MALLEABLE, LUSTROUS OR GRAYISH-WHITE POWDER. SOME COMPOUNDS MAY ALSO APPEAR AS A BROWN, YELLOW OR RED POWDER**



# *OCCUPATIONS AND PROCESSES*

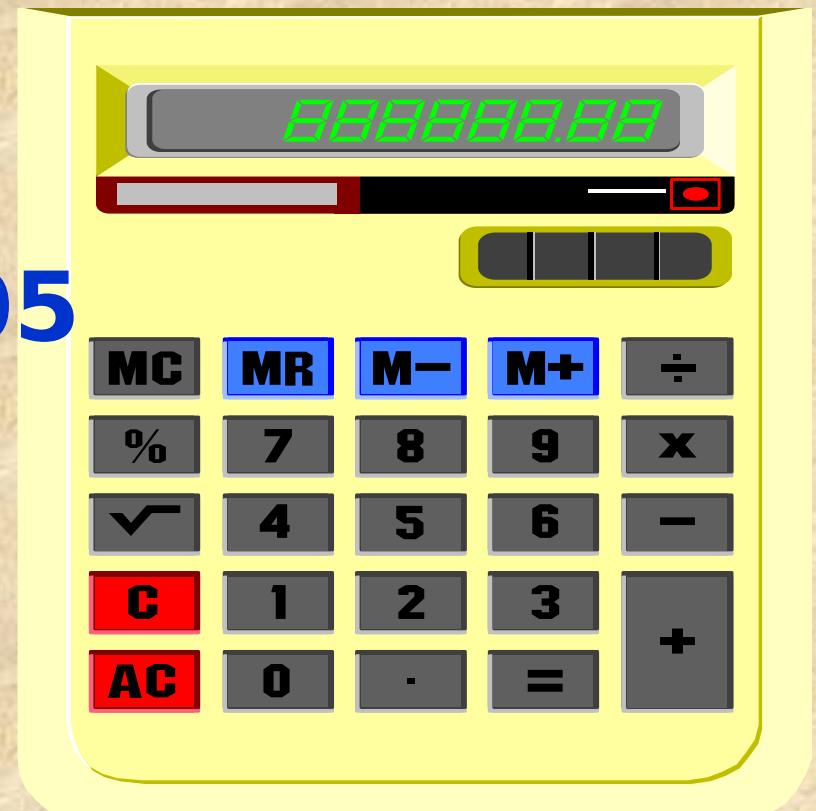


- CADMIUM MAY BE FOUND:
  - ABRASIVE BLASTING**
  - PNEUMATIC SANDING**
  - GRINDING VARIOUS SURFACES**
  - CLEANING ABRASIVE GLOVE BOX**
  - SPRAY PAINTING**
  - WELDING AND**
  - SOLDERING**

# *PERMISSIBLE EXPOSURE LIMIT*



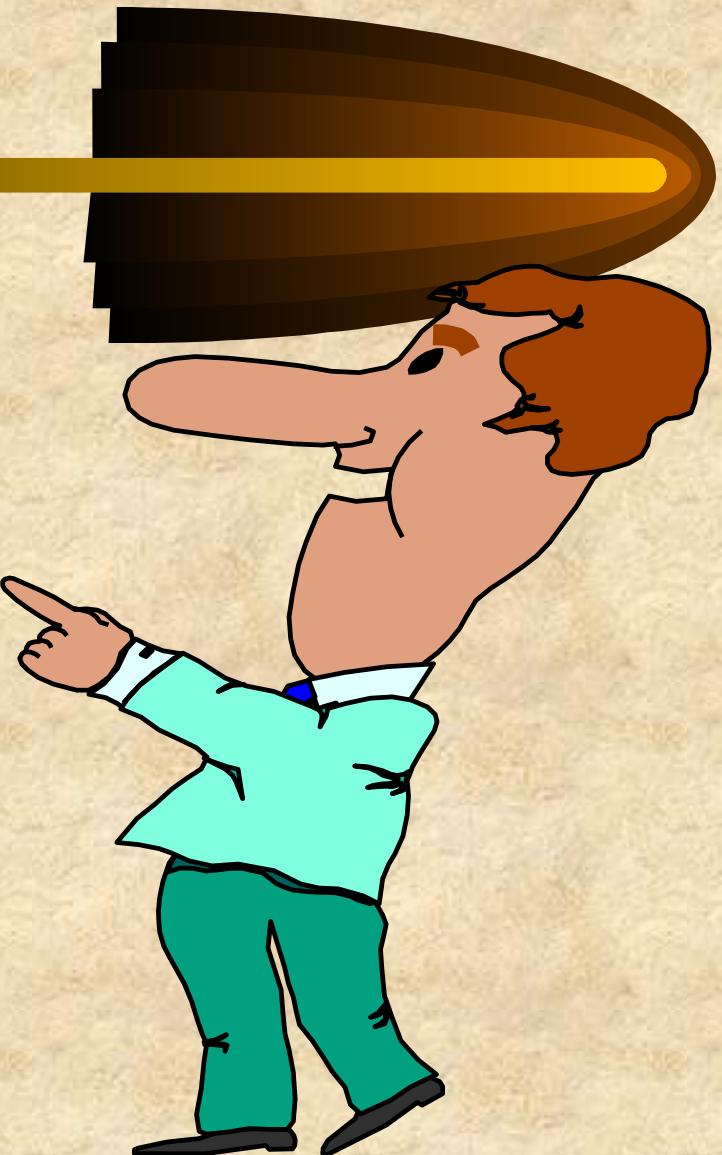
**PEL = 50  
micrograms (0.005  
ug/m<sup>3</sup>)**



# *ACTION LEVEL*

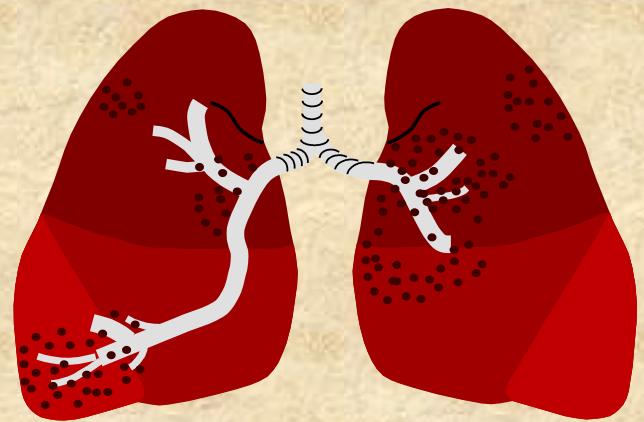
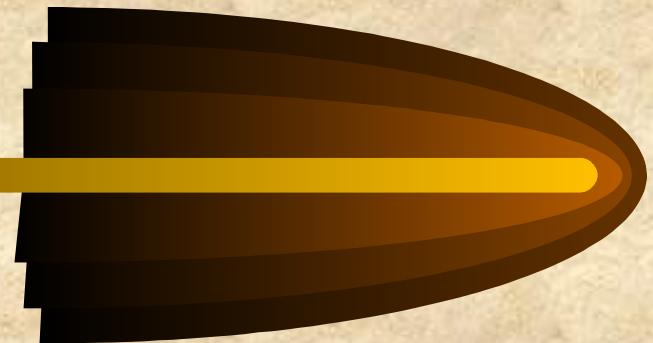
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- **ACTION LEVEL**  
**= 25**  
**micrograms**  
**(0.0025 ug/m<sup>3</sup>)**  
**AS AN 8 HOUR**  
**TIME WEIGHTED**  
**AVERAGE (TWA)**

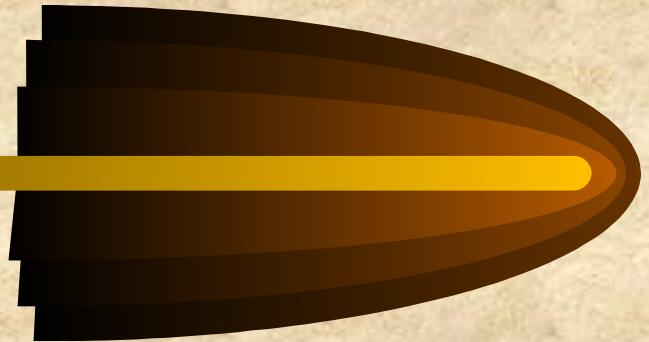


# ***HEALTH HAZARDS***

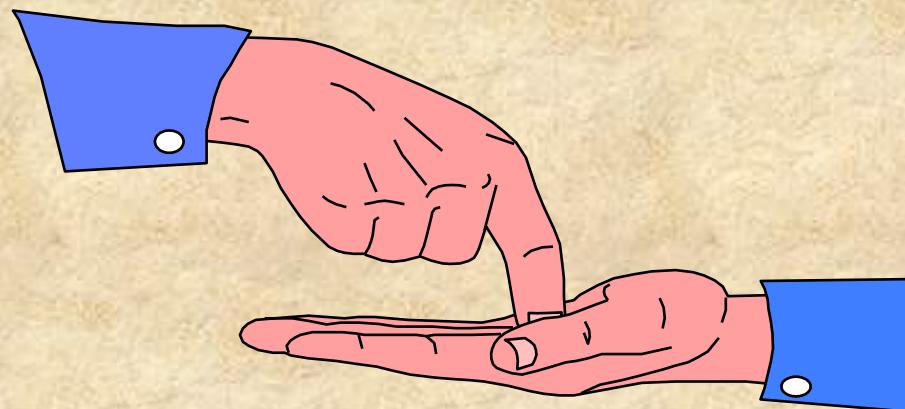
- **EYE AND SKIN IRRITANT**
- **LUNG AND PROSTATE CANCER AND KIDNEY DYSFUNCTION**



# **WARNING SIGNS**



- **WARNING SIGNS SHALL BE PROVIDED AND POSTED IN REGULATED AREAS**



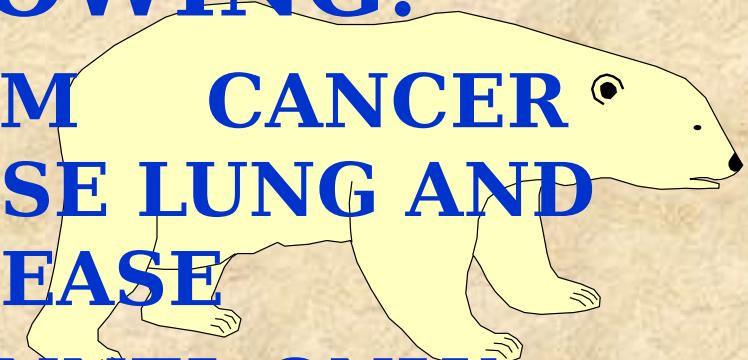
# **WARNING SIGNS**



- **WARNING SIGNS SHALL BEAR THE FOLLOWING:**

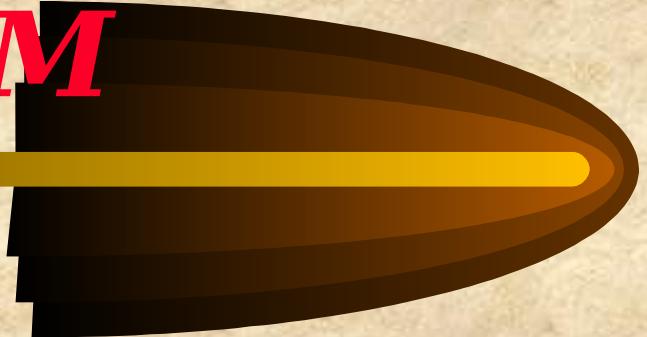
**DANGER      CADMIUM      CANCER<sup>®</sup>**  
**HAZARD      CAN CAUSE LUNG AND**  
**KIDNEY DISEASE**

**AUTHORIZED PERSONNEL ONLY**  
**RESPIRATORS REQUIRED IN THIS**  
**AREA**



# ***REDUCING EXPOSURE TO CADMIUM***

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- **ENGINEERING CONTROLS**
- **ADMINISTRATIVE  
CONTROLS**
- **PERSONAL PROTECTIVE  
EQUIPMENT**

# **PERSONAL PROTECTIO**

**N**

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- **RESPIRATORS**
- **PROTECTIVE CLOTHING**
- **EYE PROTECTION**  
**GOGGLES**  
**FACE SHIELD**



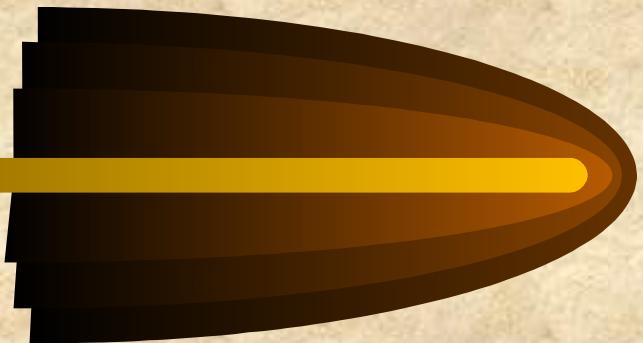
# ***REMoval AND STORAGE OF PPE***

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- **CONTAMINATED CLOTHING CANNOT BE REMOVED FROM THE WORKSITE EXCEPT FOR AUTHORIZED LAUNDERING**
- **PPE SHALL BE KEPT CLEAN AND SANITIZED**
- **ALL DISPOSABLE PPE SHALL BE DISPOSED OF AS HAZARDOUS WASTE**

# **WARNING LABELS**



- SHIPPING AND STORAGE CONTAINERS SHALL BEAR THE APPROPRIATE LABELS AND CONTAIN THE FOLLOWING:

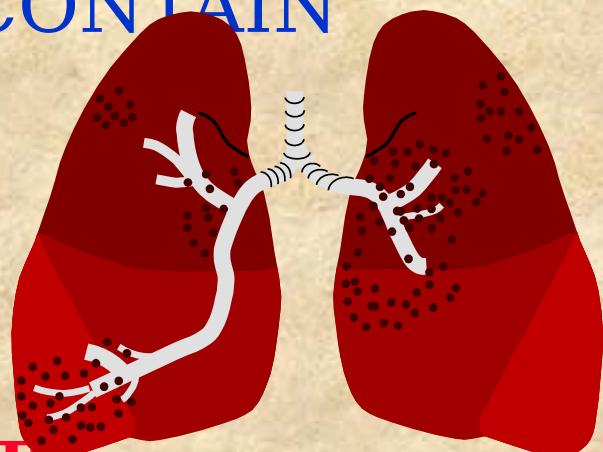
**DANGER**

**CONTAINS CADMIUM**

**CANCER HAZARD**

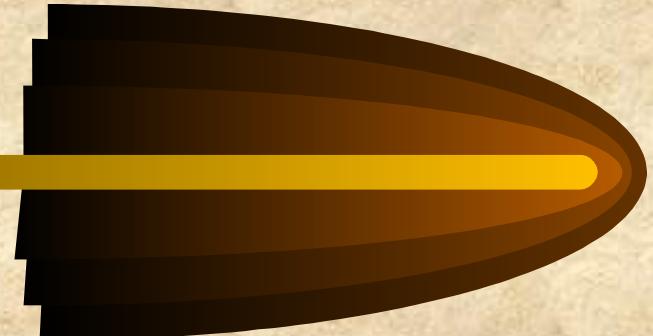
**AVOID CREATING DUST**

**CAN CAUSE LUNG AND KIDNEY DISEASE**



# *HOUSEKEEPING*

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- ALL SURFACES SHALL REMAIN FREE FROM ACCUMULATIONS
- SPILLS AND SUDDEN RELEASES SHALL BE CLEANED UP AS SOON AS POSSIBLE
- SURFACES SHALL BE VACUUMED TO MINIMIZE CADMIUM BECOMING AIRBORNE

# **PERSONAL HYGIENE**



- SHOWERS SHALL BE TAKEN AT THE END OF EACH WORK SHIFT WHEN THE EXPOSURE LEVEL IS ABOVE THE PEL
- ENSURE FACE AND HANDS ARE WASHED PRIOR TO EATING, DRINKING, SMOKING, CHEWING TOBACCO, GUM OR APPLYING COSMETICS

# *E*MERGENCY *P*ROCEDURES

- IF PERSONNEL BECOME SICK OR INJURED:

- REMOVE FROM WORKSITE



REMOVE PPE AND  
REGISTER FIRST AID

- CALL FOR MEDICAL  
ASSISTANCE



# **TRAINING**

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- **PERSONNEL SHALL RECEIVE TRAINING PRIOR TO OR AT THE TIME OF INITIAL ASSIGNMENT OF DUTIES WITH CADMIUM AND ANNUALLY THEREAFTER**

